



SCIENTIFIC UPDATE

We've got chemistry

ORGANOMETALLIC CHEMISTRY FROM MAGNESIUM TO PALLADIUM

8-9 NOVEMBER 2018

Nice, France
Holiday Inn

"Very good overview
on Organometallic
Chemistry & new
developments."

CU Chemie Uetikon GmbH



A 2 day course given by
Dr Will Watson

PROFESSIONAL DEVELOPMENT TRAINING

Scientific Update provides training courses for industrial chemists and chemical engineers in chemical development and scale-up and many other specialist topics in organic and process chemistry. Our short intensive training courses enable scientists to learn about highly relevant topics, to broaden their knowledge and to keep abreast of new science, new technology and new techniques.

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ORGANOMETALLIC CHEMISTRY FROM MAGNESIUM TO PALLADIUM

A 2 day course given by Dr Will Watson

8-9 November 2018 Nice, France, Holiday Inn

Multiple
attendees
discounts
**UP TO 15%
available**

INTRODUCTION

This course will cover stoichiometric organometallics such as Grignard reagents and catalytic organometallics based mainly on palladium and other platinum group metals.

The first day will concentrate on Grignard reagents and organolithiums and organozincs including preparation and uses and safety aspects of these reagents. Catalytic C-C and C-X bond forming reactions will be covered on day 2, concentrating on palladium catalysis, but with discussion of systems using other metals such as copper, nickel, ruthenium, rhodium and iridium. Throughout the course the emphasis will be on practical methods of carrying out synthetically useful reactions. Many case studies and industrial examples will be included to illustrate the utility of both catalytic and stoichiometric organometallic reactions.

COURSE OUTLINE

Day 1: Stoichiometric Organometallic Reagents

1. Introduction
Bonding, reactivity
2. Making and Handling
Organolithiums, Grignards and
Organozincs
Metal halogen exchange
Directed metallation
3. Safety Issues
Stability of reagents and
intermediates
Exotherms and potential runaways
4. Using Grignard reagents
Case studies using
organomagnesium reagents
5. Recent developments in Grignard
Chemistry
New chemistry and new technology
using Grignard reagents
6. Organolithium and organozinc
reagents

Day 2: Catalytic Organometallic Reagents

7. Introduction
Metals
Ligands
Catalytic cycles

8. Metal catalysed C-C bond
forming reactions
Biaryl coupling reactions
and Heck reactions
Aromatic cyanation
Hydroformylation
9. Metal catalysed C-X
bond forming reactions
Buchwald-Hartwig
Coupling
Migita Coupling
Other C-X bond forming reactions
10. Other transition metal catalysed
reactions (Rh, Ru, Ir, and Au)
Asymmetric C-C bond formation
Borrowing hydrogen chemistry
Hydrogen mediated bond forming
reactions
11. Catalysis with cheaper metals (Ni, Cu,
Fe, Co)
Ni and Cu as alternatives to Pd
Fe and Co catalysed reactions
12. Industrial Case Studies and Scale Up

IN-HOUSE COURSE

For 13+ people contact us to discuss
holding this event In-House -
sciup@scientificupdate.com

VENUE

Holiday Inn Nice, 20 Boulevard Victor
Hugo, 06000 Nice, France
+33 497 0322 22

[www.ihg.com/holidayinn/hotels/
gb/en/nice/ncefr/hoteldetail](http://www.ihg.com/holidayinn/hotels/gb/en/nice/ncefr/hoteldetail)

This property is 7 minutes walk from
the beach. This Holiday Inn is located
in the heart of Nice, just a 5-minute
walk from the famous Promenade

des Anglais. It offers modern
accommodation and it features a
fitness centre with a sea view that is
open 24 hours a day. Free WiFi access
is available.

The stylish rooms and suites of the
hotel are contemporary in style and
design and feature marble
en suite bathrooms.

A limited number of rooms have
been reserved at the hotel for
the special rate €115 per night
for single occupancy. This price
includes breakfast and excludes City
Tax, currently at €2.25. A hotel booking
form will be sent when you register
– please use this form to make your
reservation directly
with the hotel.



SCIENTIFIC UPDATE

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Start 9.00am - Wednesday 8 November
Finish 3.30pm - Tuesday 9 November
Course dinner 6.30pm - Wednesday 8 November
Course Fee: €1,700
Which includes comprehensive course manual, refreshments throughout the day, lunches and one course dinner.

Course Fee: €1,700

COURSE TUTOR

Dr Will Watson

Technical Director,
Scientific Update

Will Watson gained his PhD in Organic Chemistry from the University of Leeds in 1980. He joined the BP Research Centre at Sunbury-on-Thames and spent five and a half years working as a research chemist on a variety of topics including catalytic dewaxing, residue upgrading, synthesis of novel oxygenates for use as gasoline supplements, surfactants for use as gasoline detergent additives and non-linear optical compounds.

In 1986 he joined Lancaster Synthesis and during the next 7 years he was responsible for laboratory scale production and process research and



development to support Lancaster's catalogue, semi-bulk and custom synthesis businesses. In 1993 he was appointed to the position of Technical Director, responsible for all Production (Laboratory and Pilot Plant scale), Process Research and Development, Engineering and Quality Control. He helped set up and run the Lancaster Laboratories near Chennai, India and had technical responsibility for the former PCR laboratories at Gainesville, Florida. He joined Scientific Update as Technical Director in May 2000. He is also involved in an advisory capacity in setting up conferences and in the running of the events. He is also active in the consultancy side of the business.

@ will@scientificupdate.com

Are you an SME?
please contact us to discuss special SME* rates

COURSE PARTICIPANTS

Who is the course aimed at?

Process Chemists wishing to maximise their knowledge and understanding of the chemical technology

Discovery Chemists wishing to keep their industrial synthetic chemistry know-how at the cutting edge

Production Chemists wishing to maintain their awareness of emerging industrial chemical technologies

Experienced Chemists looking to refresh and/or augment their knowledge of industrial Organometallic Chemistry

Students who are about to enter industry

New Starters who have just started work in industry as organic chemists

Managers who might benefit from an overview of the chemical technology available for use in the pharmaceutical, fine chemical and allied industries today

REGISTRATION

You can either use our fast online booking system or mail or fax the attached registration form to:
Scientific Update
Maycroft Place, Stone Cross, Mayfield,
East Sussex, TN20 6EW, UK
Fax Number +44 1435 872734

How to Pay

When you register online, you can have the option to pay via credit card (Mastercard or Visa). A receipted invoice will be automatically generated once paid and sent via email. Should your company wish to pay by cheque or bank transfer bank details will be supplied with an invoice.

Bank Transfer or Cheque

Should your company wish to pay by cheque or bank transfer, on booking you can choose between paying in either €, \$ or £. All bank details will be supplied with an invoice.

Group Discounts

Group discounts are available on two or more attendees - see registration form. This offer only applies if bookings are made simultaneously and from the same billing address.

Confirmation of your registration

These will be sent via email.

Late Applications

For late applications, please register online or fax the completed registration form, including credit card payment information.

Cancellations/Refunds

Should you be unable to attend and cancel in writing no later than 1 month before the start of the course, Scientific Update will refund your registration less £300 (or equivalent in €/£) processing fee. Unfortunately refunds are not possible after that date. Substitutions can be made at any time.

ORGANOMETALLIC CHEMISTRY FROM MAGNESIUM TO PALLADIUM



NEW FAST ONLINE REGISTRATION

Why not register quickly online and receive instant confirmation? Look for the **register** button on the event of your choice.

www.scientificupdate.com

8-9 November 2018 Nice, France

No. of attendees @ €1700

Special Offer!

Register 2 delegates and receive 5% on 2nd booking
Register 3 delegates and receive 10% on 3rd booking
Register 4 or more delegates and receive a 15% discount

First attendee

Company	<input type="text"/>
Title (Dr/Prof/Mr/Mrs/Ms)	<input type="text"/>
First name	<input type="text"/>
Surname	<input type="text"/>
Job Title	<input type="text"/>
Address	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
Post Code / Zip	<input type="text"/>
Country	<input type="text"/>
Tel	<input type="text"/>
Fax	<input type="text"/>
Email	<input type="text"/>
Mobile	<input type="text"/>
Special Diet	<input type="text"/>
I would like to subscribe to your FREE bi-monthly newsletter What's new in Process Chemistry? <input type="checkbox"/>	

Second attendee **SAVE 5%**

Title (Dr/Prof/Mr/Mrs/Ms)	<input type="text"/>
First name	<input type="text"/>
Surname	<input type="text"/>
Job Title	<input type="text"/>
Tel	<input type="text"/>
Fax	<input type="text"/>
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Special Diet	<input type="text"/>
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Third attendee **SAVE 10%**

Title (Dr/Prof/Mr/Mrs/Ms)	<input type="text"/>
First name	<input type="text"/>
Surname	<input type="text"/>
Job Title	<input type="text"/>
Tel	<input type="text"/>
Fax	<input type="text"/>
Email	<input type="text"/>
Special Diet	<input type="text"/>
I would like to subscribe to your FREE bi-monthly newsletter What's new in Process Chemistry? <input type="checkbox"/>	

Invoice Address (if different to delegate address)

Address	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
Post Code / Zip	<input type="text"/>
Country	<input type="text"/>
Tel	<input type="text"/>
Fax	<input type="text"/>

☐ Please invoice my company

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Payment Methods

Payment will be made by:

☐ Cheque ☐ Bank Transfer ☐ Credit Card

In Currency:

☐ Euros ☐ GBP* ☐ or Dollars*

We accept the following credit cards:



Amex*



Mastercard



Visa

To pay by credit card a secure link will be provided once you receive your booking confirmation email, this will then take you to a secure payment gateway.

*payments via Amex can only be made in US dollars

* Currency Payments

If you select to pay in GBP, or Dollars the amount charged will be based on the exchange rate at the time of preparing the invoice.

Discounts

Complete the details for either two or three delegates and your discount will automatically be applied. This offer only applies where all delegates are booked simultaneously and at the same billing address.

Cancellations

Should you be unable to attend and cancel in writing no later than 1 month before the start of the course, Scientific Update will refund your registration fee less £300 (or equivalent in €/£) processing fee. Unfortunately refunds are not possible within 1 month of the course date. Substitutions can be made at any time.

Data Protection

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